

Roller bearing for meltiberbaces, etc. - is made of sintered silicon nitride with oxide additives of magnesium, zirconium, strontium, aluminium and rare earth metals

Publication number: DE4235838
Publication date: 1993-04-29

Inventor:

MATSUHISA TADAAKI (JP); KATO KIMINARI (JP);

MATSUDA HIROTO (JP); NIIZEKI SHIN (JP); ABE

TSUTOMU (JP)

Applicant:

NGK INSULATORS LTD (JP); NSK LTD (JP)

Classification:

- international:

C04B35/593; F16C33/30; F16C33/62; C04B35/584;

F16C33/30; F16C33/62; (IPC1-7): B28B3/00;

C04B35/58; F16C33/56; F16C33/62

- european:

C04B35/593; F16C33/30; F16C33/62

Application number: DE19924235838 19921023 Priority number(s): JP19910280087 19911025

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Abstract of **DE4235838**

Roller bearing has outer ring, inner ring or roller bearing element made of a sintered SiN material containing in wt.% 0.5-4 MgO; 0.3-3 ZrO2 and 1.5-5 (in combination with MgO and ZrO) of at least one chosen from SrO, Al2O3 and rare earth metal oxide. The sintered SiN pref. contains 0.1-3wt.% Al2O3, and/or 0.1-2 SrO and 0.5-3 CeO2. The average particle size of the oxides in the material is micron max. USE/ADVANTAGE - In roller bearings for melting furnaces, hot dip salvanizing baths and electroplating baths, drive shaft of tool machines and turbomolecular pumps. Roller bearing is reliable and has long work life with high good corrosion resistance.

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